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	The state of the s	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
APPLICATION NO.	FILING DATE	Manwinder Singh	4320-532	4058	
10/736,622	12/17/2003	Manwinder Singh			
1059	7590 05/12/2004		EXAMINER		
BERESKIN	AND PARR	menon, Krishnan S			
SCOTIA PLA	ZA	000 DOV 401	ART UNIT	PAPER NUMBER	
40 KING STR TORONTO,	EET WEST-SUITE 40 ON M5H 3Y2	100 BOX 401	1723		
CANADA			DATE MAILED: 05/12/200)4	

Please find below and/or attached an Office communication concerning this application or proceeding.

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•	Application No.	Applicant(s)	
	10/736,622	SINGH ET AL.	
Office Action Summary	Examiner	Art Unit	
	Krishnan S Menon	1723	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	vith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REITHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply within the statutory minimum of the iod will apply and will expire SIX (6) M6 stute, cause the application to become	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication (BANDONED (35 U.S.C.§ 133).	n.
Status			
1)⊠ Responsive to communication(s) filed on 12 2a)□ This action is FINAL. 2b)⊠ T 3)□ Since this application is in condition for allocation accordance with the practice under the condition of the condition of the condition accordance with the practice.	his action is non-final. wance except for formal ma		S
Disposition of Claims			
4) Claim(s) 1-5 is/are pending in the application 4a) Of the above claim(s) is/are without 5) Claim(s) is/are allowed. 6) Claim(s) 1-5 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and	drawn from consideration.		
Application Papers			
9) The specification is objected to by the Exam 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the cor 11) The oath or declaration is objected to by the	accepted or b) objected t the drawing(s) be held in abey πection is required if the drawi	ance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR 1.121((d).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Bu * See the attached detailed Office action for a	nents have been received. nents have been received ir priority documents have be reau (PCT Rule 17.2(a)).	Application No en received in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date	Paper N	v Summary (PTO-413) o(s)/Mail Date if Informal Patent Application (PTO-152) 	

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3 and 5 rejected under 35 U.S.C. 102(b) as being anticipated by Cote et al (US 5,607,593).

Claim 1: Cote teaches a reactor for filtering water comprising (see fig 1, 7):

- (a) one or more modules of filtering membranes (3) located within a tank (7);
- (b) a source of transmembrane pressure to the membranes for withdrawing a permeate from the insides of the immersed membranes (pump 17),
- (c) an aeration system operable to supply bubbles to the tank to inhibit fouling of the membranes (pump/blower 19),
- (d) a feed inlet for introducing feed water to the tank (4);
- (e) a retentate outlet for removing retentate from the tank (28);
- (9 a gas recirculation system to collect one or more gases liberated from feed water in the tank and return the collected gases to the aeration system (col 4 lines 18-25, col 3 lines 27-32, col 5 lines 53-55, col 4 line 66 col 5 line 13, and col 7 lines 37-58; Fig 7 and 8; col 11 lines 32-62).

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Claims 2 and 3: lid for the tank – see 12 in the figures and col 9 lines 3-5. Also tank 1 is depicted as closed. Transmembrane pressure is applied by suction – see pump 17.

Claim 5: gas circulation system having an inlet or an exhaust – see blower (19) connection to line 5 – gas inlet from atmosphere; hood 12 exhaust – gas outlet.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cote (593) in view of Key et al (US 4,132,637).

Cote teaches all the limitations of claim 1. Claim 4 adds the further limitation of a gas dryer to dry the gases before entering a blower in the gas recirculating system, which Cote does not teach. Key teaches a gas recirculating system (fig 3) having a dryer (64) and compressor (38) for recycling gases in a waste treatment system. It would be obvious to one of ordinary skill in the art at the time of invention to use the teaching of Key in the teaching of Cote for the gas recycle system to recycle the gases of Cote for a more efficient use of the ozonation gases (see Key col 6 lines 5-20).

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Krishnan S Menon whose telephone number is 571-272-1143. The examiner can normally be reached on 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda L Walker can be reached on 571-272-1151. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Krishnan Menon Patent Examiner

W. L. WALKER
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1700